

We claim:

1. A stair safety system for toddlers for attachment to a banister comprising:
a large mesh net with a first long edge and a second long edge,
temporary connectors attached to the first long edge for attachment to the stair railing,
5 stair edge grippers further comprising hook surfaces for gripping the stair edge
carpeting,
and temporary connectors attached to the second long edge for attachment to the stair
edge grippers.
- 10 2. The system of claim 1 in which the net has a cord diameter between 1 and
4 mm.
3. The system of claim 1 in which the mesh size is between 1 and 2 inches.
4. The system of claim 1 in which the attachment from the banister to the net is
with hook and loop material.
- 15 5. The system of claim 1 in which the attachment from the banister to the net is
with cable ties.
6. The system of claim 1 in which the cord diameter is about 3 mm.
7. The system of claim 1 in which the cord diameter is between 1-5 mm.
8. The system of claim 1 in which the mesh size is about 1.5 inches.
9. The system of claim 1 in which the mesh size is between 1-2 inches.
- 20 10. The system of claim 1 in which the mesh size is between 0.75-3 inches.
11. The system of claim 1 in which the hook surfaces for gripping the stair edge
carpeting comprise deep-machined hooks.

12. The system of claim 1 in which the hook surfaces for gripping the stair edge carpeting comprise deep-machined hooks with depths in the range of 1-2 mm.
13. The system of claim 1 in which the hook surfaces for gripping the stair edge carpeting comprise deep-machined hooks with depths in the range of 0.7-
5 5 mm.
14. A carpeted stair edge gripper comprising a main body material, a grommet, and a deep machined hook surface under the main body material surface such that the deep machined hook surface under the main body material surface is attached to the main body material to then transfer force through that body
10 material to the grommet which is attached to that main body material.
15. The device of claim 14 in which the deep machined hooks are at least 1mm in depth.
16. The device of claim 14 in which the hook surfaces of the deep-machined hook surface comprise deep-machined hooks with depths in the range of 1-2 mm.
- 15 17. The device of claim 14 in which the hook surfaces of the deep-machined hook surface comprise deep-machined hooks with depths in the range of 0.7-5 mm.
18. A method of attaching an object to a carpeted stair edge including the steps of attaching a machined hook surface to the underside of a main body material and putting at least one part of this device into the stair carpeting and putting
20 this system under mechanical tension.
19. The method of claim 18 in which the hook surfaces of the machined hook surface comprise deep-machined hooks with depths in the range of 1-2 mm.

20. The method of claim 18 in which the hook surfaces of the machined hook surface comprise deep-machined hooks with depths in the range of 0.7-5 mm.
21. A method of building and using a toddler stair safety system including weaving a large mesh net with a thick cord and attaching the upper edge of the net to a stair railing with temporary fasteners and attaching the bottom edge of the net to stair carpeting.
22. The method of claim 21 in which the net has a cord diameter between 1 and 4 mm.
23. The method of claim 21 in which the mesh size is between 1 and 2 inches.
24. The method of claim 21 in which the attachment from the banister to the net is with hook and loop material.
25. The method of claim 21 in which the attachment from the banister to the net is with cable ties.
26. The method of claim 21 in which the cord diameter is about 3 mm.
27. The method of claim 21 in which the cord diameter is between 1-5 mm.
28. The method of claim 21 in which the mesh size is about 1.5 inches.
29. The method of claim 21 in which the mesh size is between 1-2 inches.
30. The method of claim 21 in which the mesh size is between 0.75-3 inches.
31. The method of claim 21 in which the hook surfaces for gripping the stair edge carpeting comprise deep-machined hooks.
32. The method of claim 21 in which the hook surfaces for gripping the stair edge carpeting comprise deep-machined hooks with depths in the range of 1-2 mm.

33. The method of claim 21 in which the hook surfaces for gripping the stair edge carpeting comprise deep-machined hooks with depths in the range of 0.7-5 mm.